

ENCLOSURE 4

Westinghouse Proprietary Class 3
“AP1000 Shield Building Design” – (Non-Proprietary)

AP1000 Shield Building Design



Analysis and Testing Plan

Rockville, MD

December 21-22, 2009

Westinghouse Non-Proprietary Class 3

Design Process Review Meeting

Meeting Goals:

- 1. Clarify design process***
 - Benchmarking*
 - Levels of Analyses*
- 2. Define tests and acceptance criteria***
- 3. Agreement on seismic loads***

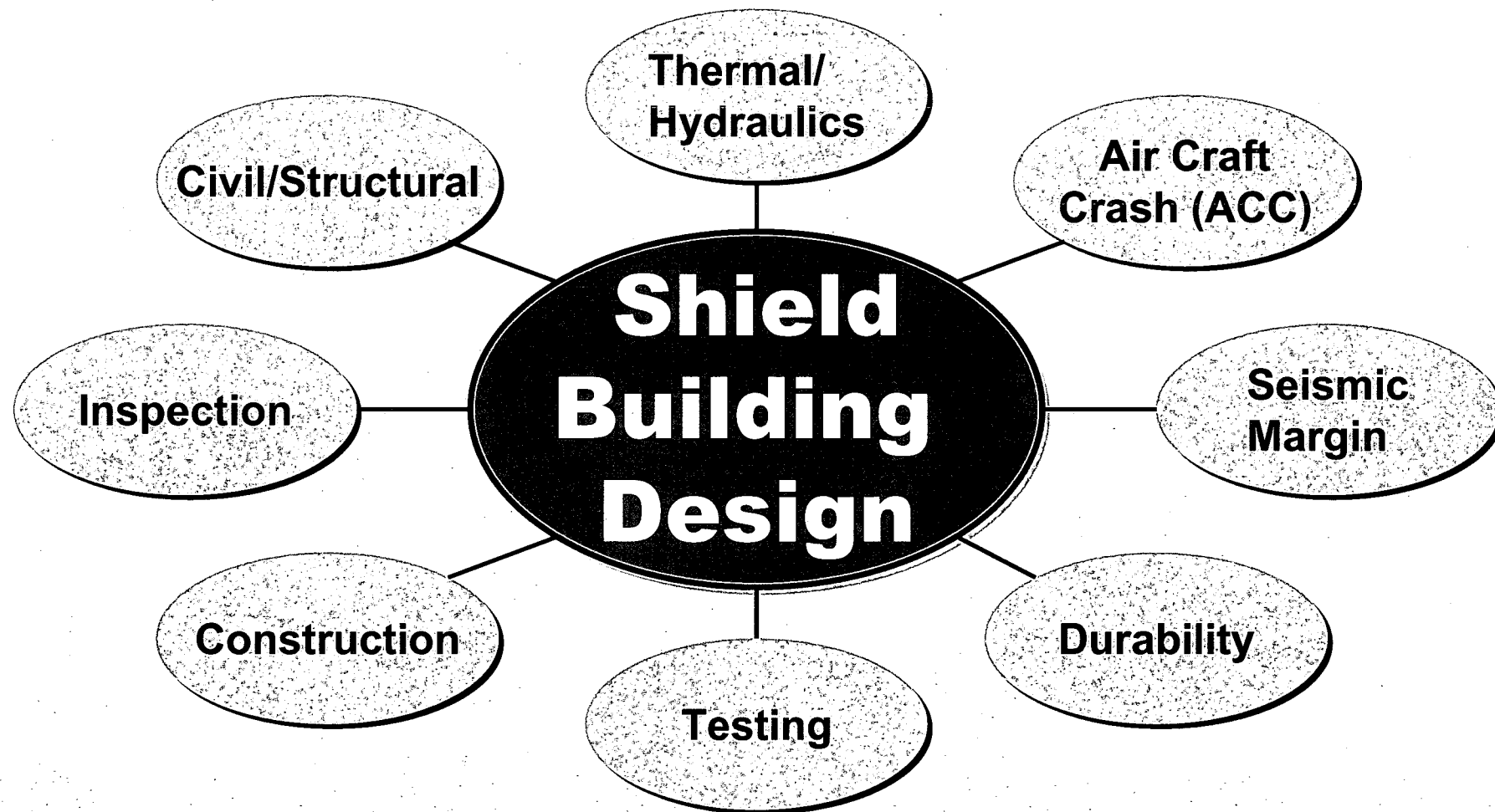
Topics to be Covered Today

(Highlighted in Red)



- Background
- **Design Process**
- **Integration**
- Overview and Organization
- Design Features
- **Testing**
- **Analysis**
- Constructability and Inspection Plan
- Conservatism in the Design Process
- Summary and Conclusion

Design Process Integration

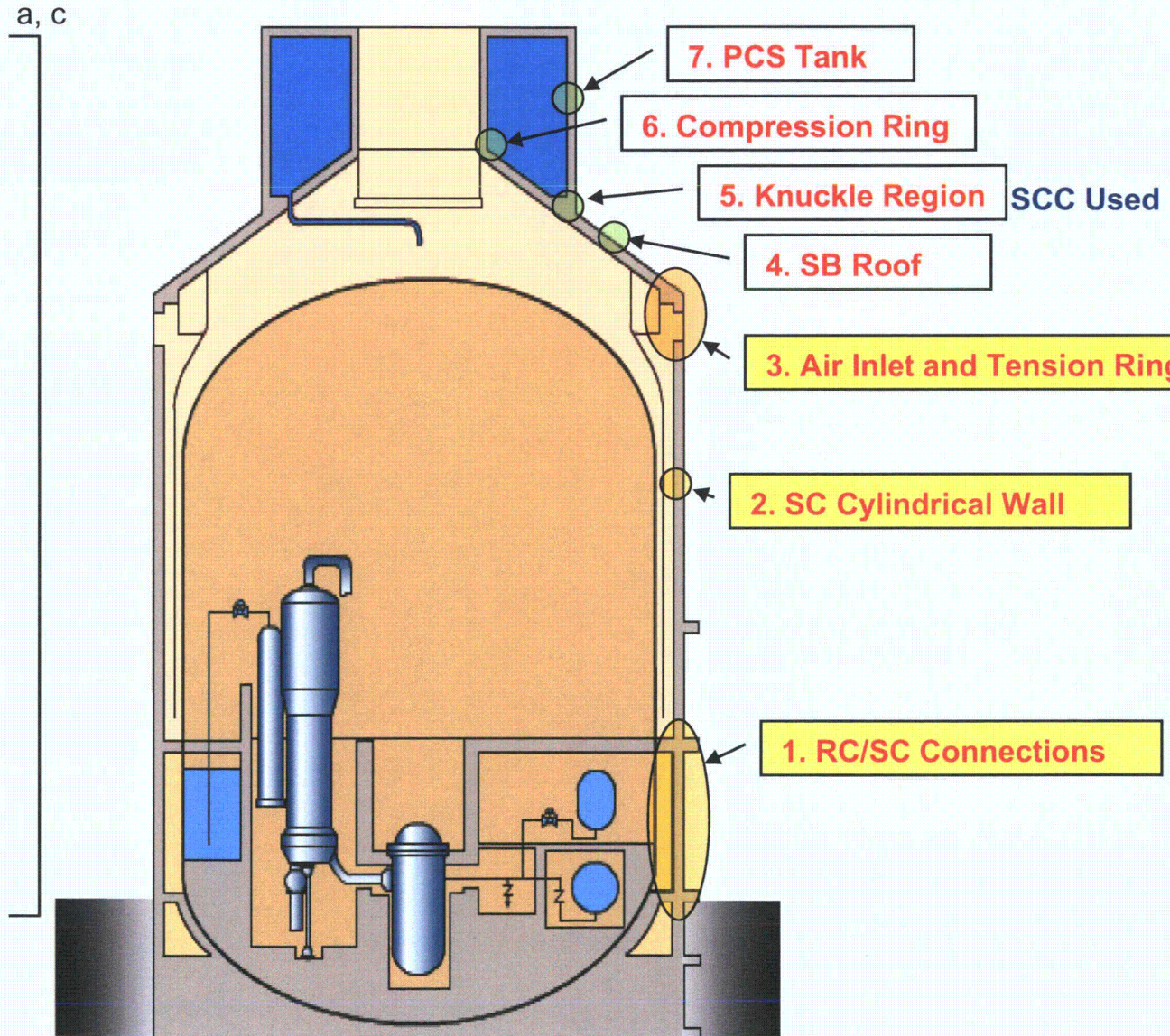


Design Process

AP1000

a, c

Design Features



Design Process Matrix

AP1000

a, c

Design Process: RC Design

a, c

Design Process: SC Design Level 1

AP1000

a, c

Design Process: SC Design Level 2

AP1000

a, c

Design Process: SC Design Level 3

AP1000

a, c

Integrated Analysis Testing and Design Overview

(using seismic as example)

AP1000

a, c

Benchmarking FE Analyses

AP1000

a, c

Design Process Flow Chart

AP1000

a, c